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| (54) Title: AN IMPROVED LIGHTNING DOWNCONDUCTOR | | | |
| <p>The diagram illustrates a longitudinal cross-section of a lightning downconductor (9). It features a central inner electrical conductor (3) surrounded by an insulating layer (5). This is followed by a resistive semi-conductive layer (6) and a conductive layer (7). The outermost layer is the downconductor itself (9). At the left end, there is an upper termination device (11) connected to the upper end of the conductor. At the right end, there is a lower termination device (14) connected to the lower end. The conductive layer (7) is shown as a continuous loop around the outer part of the downconductor, with a portion omitted or removed near the upper termination device (11) to expose the resistive semi-conductive layer (6) as an outer layer.</p> | | | |
| (57) Abstract | | | |
| <p>A lightning downconductor (9) forming part of a lightning protection system, the downconductor (9) has an upper end connected to a lightning collector (10) through an upper termination device (11) and a lower end connected to an earthing system (15) through a lower termination (14). The downconductor (9) comprises an inner electrical conductor (3), an insulating layer (5) surrounding the inner electrical conductor (3), a resistive semi-conductive layer (6) surrounding the insulating layer (5) and a conductive layer (7) surrounding the resistive semi-conductive layer (6). A length of the conductive layer (7) is omitted or removed from the upper end of the downconductor (9) adjacent the upper termination device (11) to expose the resistive semi-conductive layer (6) as an outer layer of the downconductor (9).</p> | | | |